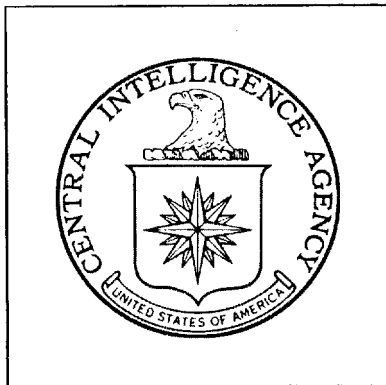


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Imagery Analysis Report

Radioastronomy Stations

Volkhov Yar and Baldone,USSR

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IMAGERY ANALYSIS SERVICE

RADIOASTRONOMY STATIONS - VOLKHOV YAR
AND BALDONE, USSR

SUMMARY

This is one in a series of studies covering selected astronomical observatories within the USSR. The most important and unusual facility at these observatories is the "T-shaped" interferometer at Volkhov Yar Radioastronomy Station. A similar configuration of ground scars was noted at the Baldone Radioastronomy Station. This study updates a previous report 1/ which describes the Volkhov Yar Radioastronomy Station.

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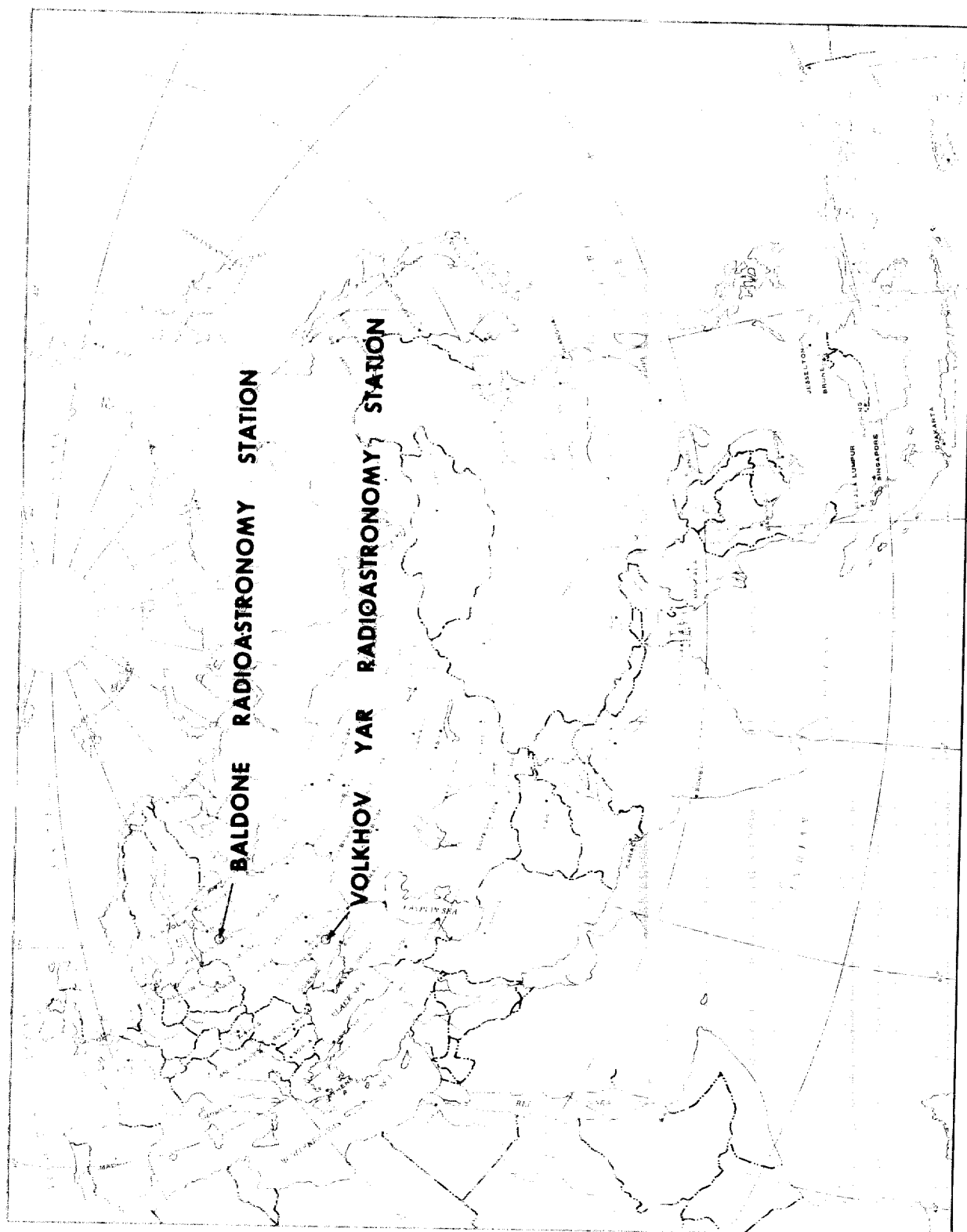


FIGURE 1. LOCATION MAP

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INTRODUCTION

This report presents a comparative study of the Volkhov Yar and Baldone Radioastronomy Stations.

The observatories have facilities for radioastronomical observations; however, facilities for optical observations may also be present. Positive identification of optical facilities within the observatories was impossible because of the small scale and poor resolution of the photography.

All measurements have been made by the NPIC Technical Intelligence Division and are considered to be accurate

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KHARKOV INSTITUTE OF RADIO PHYSICS AND ELECTRONICS
VOLKHOV YAR RADIOASTRONOMY STATION

The Volkhov Yar Radioastronomy Station is located 16 nautical miles (nm) south-southeast of Chuguyev, USSR, and 1.5 nm northwest of the village of Volkhov Yar at approximately 49-37N 36-57E. The installation occupies an irregularly shaped secured area.

The station's principal feature is a T-shaped interferometer with a control/instrumentation building located at the intersection of the two arms. The following annotations are keyed to Figure 3:

a. North-South Arm of the Interferometer

b. East-West Arm of the Interferometer --

c. Control/Instrumentation Building --

d. Support Building

e. Support Building

f. Secured Area with Storage Tanks

g. Unidentified Construction

h. Area of Expansion

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This observatory has continued to expand its facilities since [redacted] as is reflected in the following table.

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Table I

EXPANSION AT THE VOLKHOV YAR RADIOASTRONOMY STATION

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[redacted]	<u>Location within Installation</u>	<u>Remarks</u>
	Near control/instrumentation building	2 temporary buildings added

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Location within Installation

Remarks

Near control/instrumentation
building

2 temporary build-
ings removed

Adjacent to area of expansion

1 temporary build-
ing added

Area of expansion

Unidentified activity

Throughout observatory

New ground scarring

Northwestern Area

Secured area with 2
tanks added

Adjacent to area of expansion

1 temporary build-
ing removed

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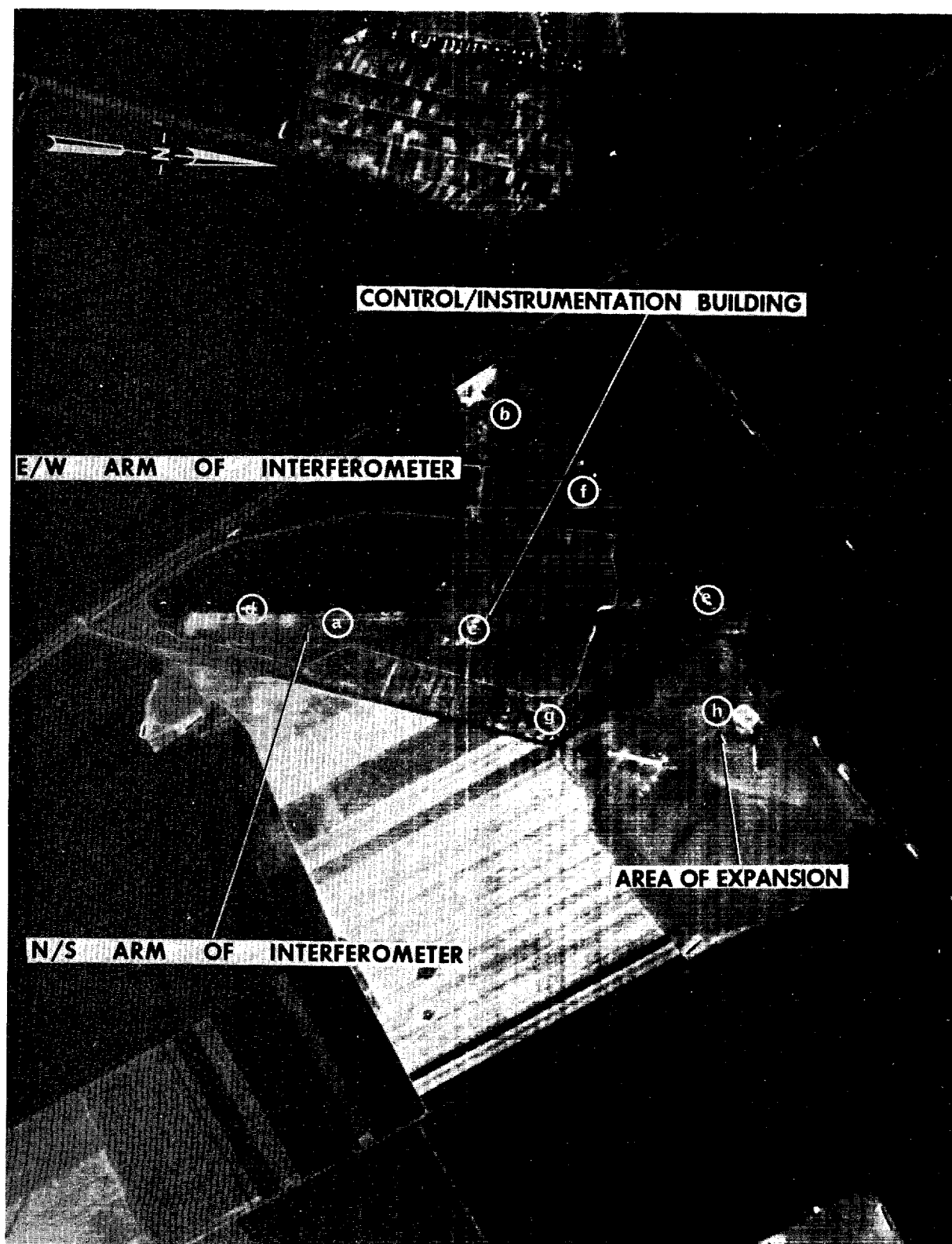


FIGURE 3 . KHARKOV INSTITUTE OF RADIO PHYSICS AND ELECTRONICS-
RADIOASTRONOMY STATION, VOLKHOV YAR, USSR,

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LATVIAN ASTROPHYSICAL LABORATORY
BALDONE RADIOASTRONOMY STATION
BALDONE, USSR

The Baldone Radioastronomy Station is located 2.5 nm southwest of Baldone and 17 nm southeast of Riga, USSR at approximately 56-42-30N 24-20-00E. The installation is irregular in shape.

The station's principal features are two linear ground scars intersecting at right angles with three probable control buildings located at the intersection of the scars. The following annotations are keyed to Figure 5:

- a. North-South Ground Scar
- b. East-West Ground Scar
- c. Probable Control Buildings
- d. Probable Support Area
- e. Interferometer

The ground scars have the same characteristics as those for the interferometer located at Volkhov Yar, USSR. This facility has continued to expand since it was first noted on photography of Mission [REDACTED] The poor resolution and small scale of the photography over the facility precluded a chronological study.

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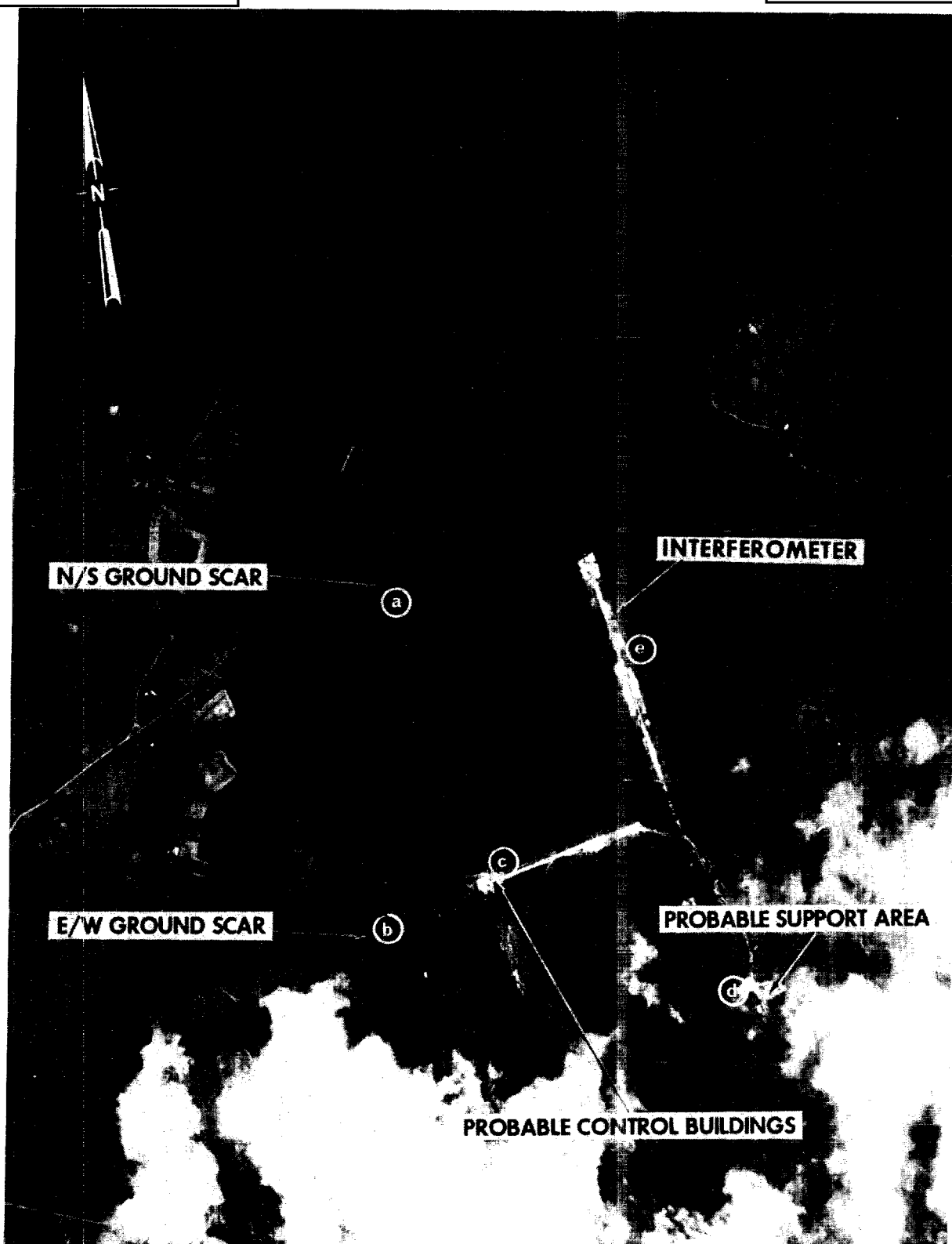


FIGURE 5. LATVIAN ASTROPHYSICAL LABORATORY-RADIOASTRONOMY STATION, BALDONE, USSR.

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Maps and Charts

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ACIC. US Air Target Chart, Series 200, sheet 0153-22HL, 3rd edition, September 1963, scale 1:200,000 (SECRET)

Documents

1. CIA/PIR 65064, [REDACTED] Volkhov Yar Radioastronomy Station, Volkhov Yar, USSR, December 1965 (TOP SECRET [REDACTED])

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Requirement

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